SiteManager Training Manual

Module F
Chapter 4

Materials Management
Mix Design

Section F-4-2-3
Viewing a SUPERPAVE Mix Design

Student's Version

Indiana Department of Transportation
November 2007 Version 3.7b

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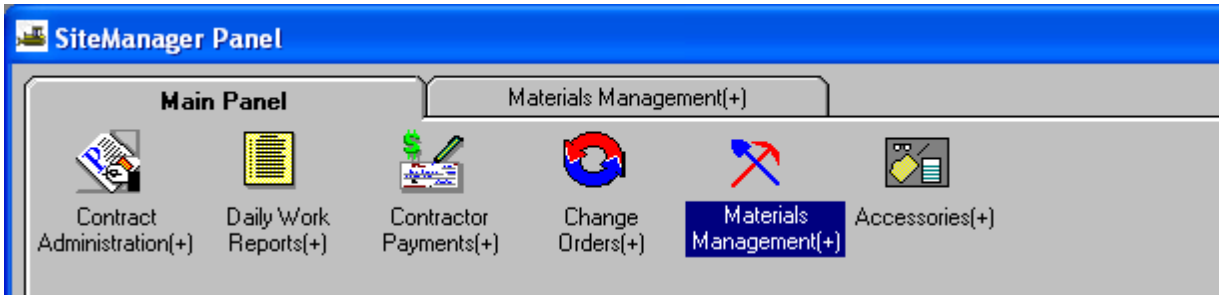
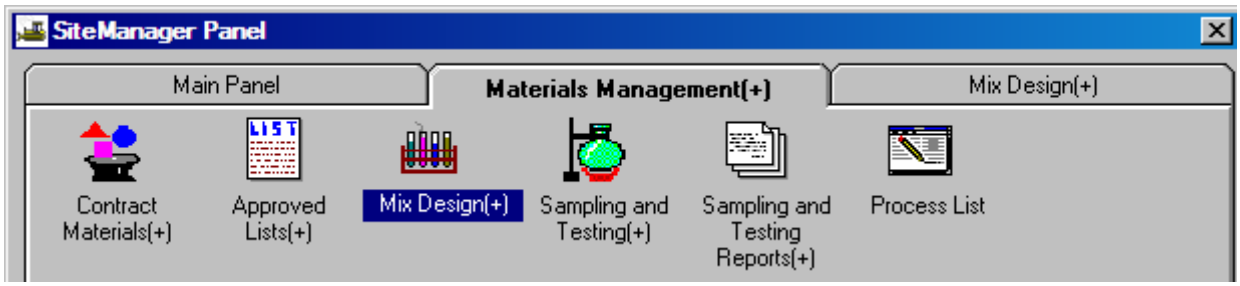
Viewing a SUPERPAVE Mix Design

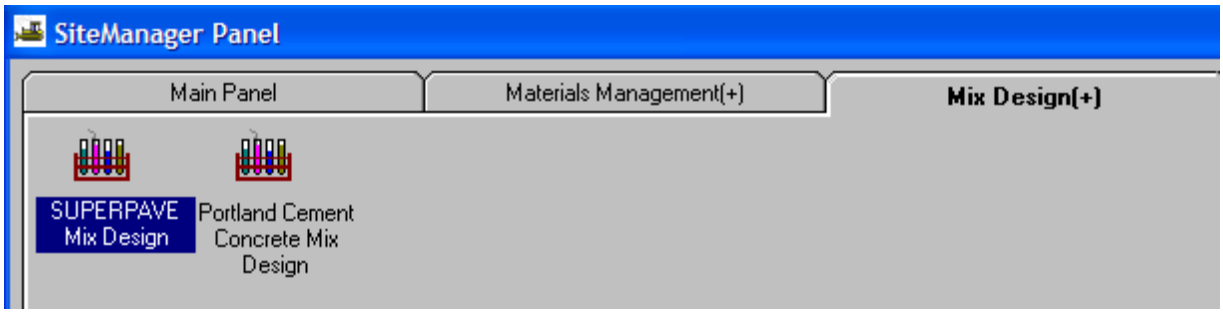
This document will explain how to view **SUPERPAVE Mix Design** information.



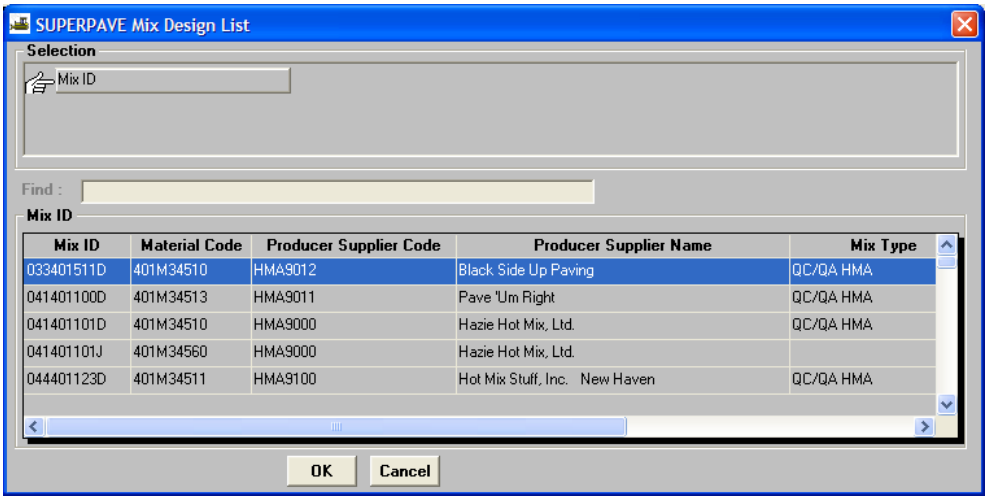
"Double-click" on the **Materials Management** icon located on the Main Panel.



"Double-click" on **Mix Design**.



"Double-click" on **SUPERPAVE Mix Design.**

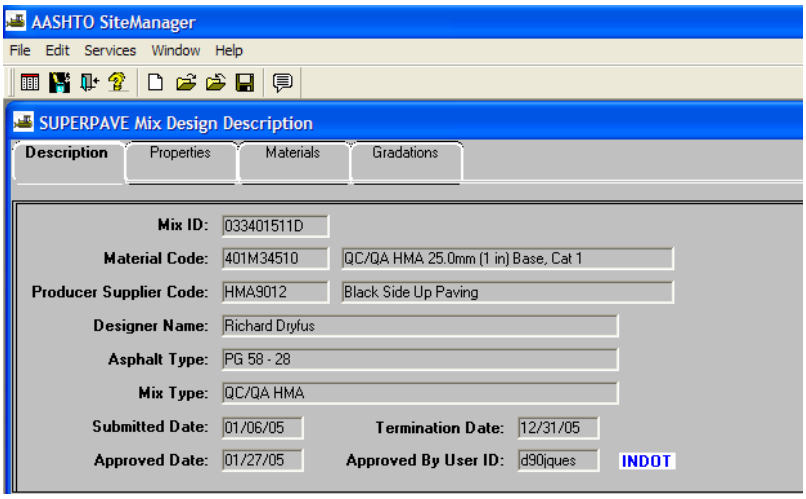


Use the Scroll or Find/Filter/Sort technique to locate the appropriate **Mix ID**.

"Double-click" on the appropriate **Mix ID**.

Description tab

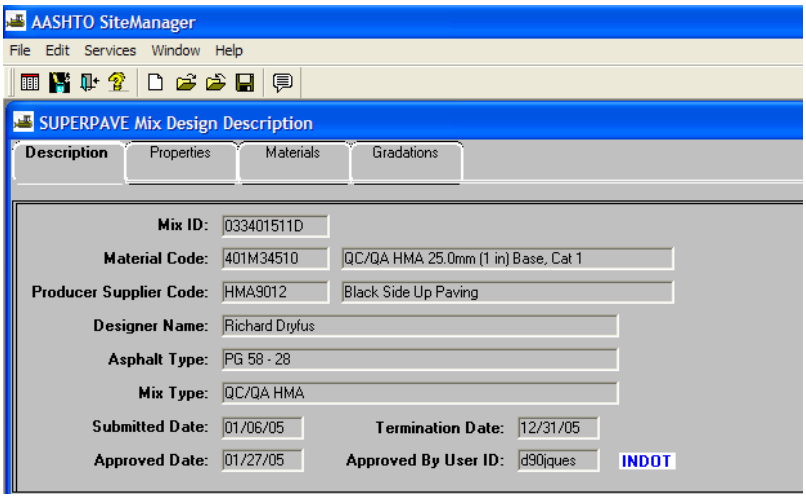
The **Description** tab includes general information about the mix design.



Mix ID: the **Mix ID** is a unique number that identifies the SUPERPAVE mix design. The current numbering system will be utilized in the yydsss123X format.

Example: 041402123D

- **yy**dsss123X — The first two digits (yy) are the last two digits of the year the mix design is submitted.
- yy**d**sss123X — The third digit represents the district the mix design was submitted.
- yyd**sss**123X — The fourth, fifth, and sixth digits are numbers representing the specification reference for the mix design
- yydsss**123**X — The seventh, eighth and ninth digits are numbers assigned by the district.
- yydsss123**X** — The last digit is used to designate Design Mix Formula/Job Mix Formula (DMF)/(JMF),
  - an D represents the DMF
  - an J represents the JMF after the adjustment period.



Material Code: The **Material Code** represents the material associated to the mix design. The material name is displayed in the field located to the right of the **Material Code** field.

Producer Supplier Code: The **Producer Supplier Code** represents the facility where the mix design mixture will be produced. The Producer/Supplier's name and location is displayed in the field located to the right of the **Producer Supplier Code** field.

Designer Name: The **Designer Name** is the individual or mix design lab that created the mix design.

Asphalt Type: The **Asphalt Type** identifies the asphalt material utilized in the mix design.

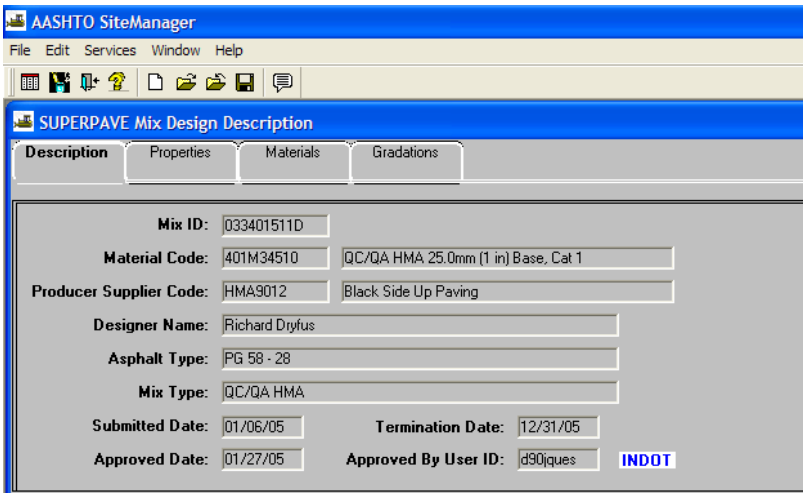
Mix Type: The **Mix Type** identifies the topic of the specification used to develop the mix design.

Submitted Date: The **Submitted Date** is the date the mix design was submitted to the district.

Termination Date:

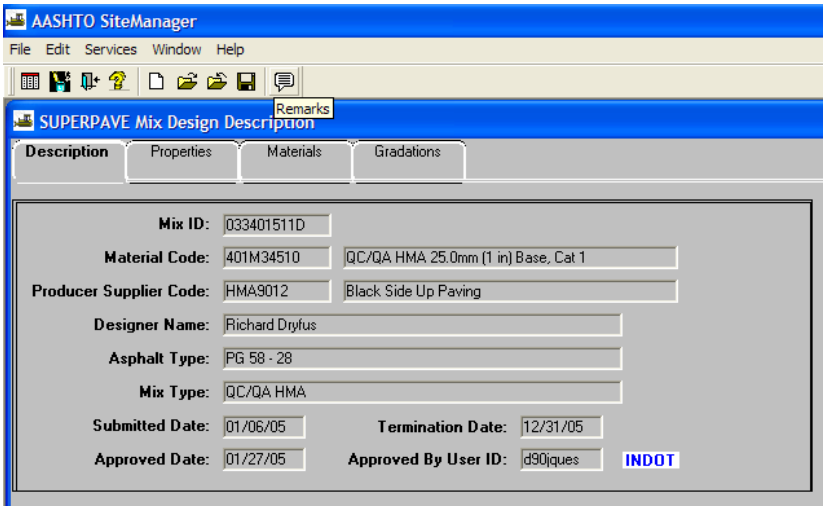
- DMF: the **Termination Date** is the date the DMF shall no longer be used. The field shall remain 00/00/00 until the JMF is approved.

- JMF: the **Termination Date** is the date the JMF shall no longer be used without additional review.

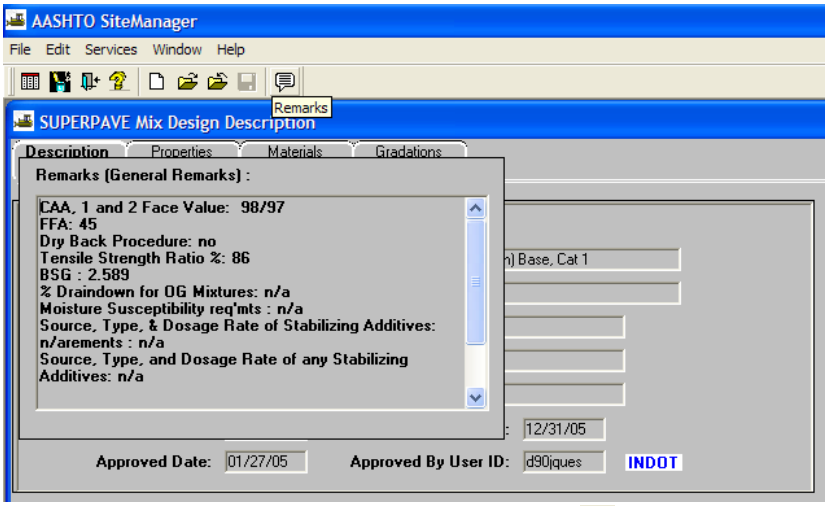


Approved Date: The **Approved Date** is the date when the mix design is approved.

Approved By User ID: The **Approved By User ID** is populated with the user ID of the individual who approves the mix design.



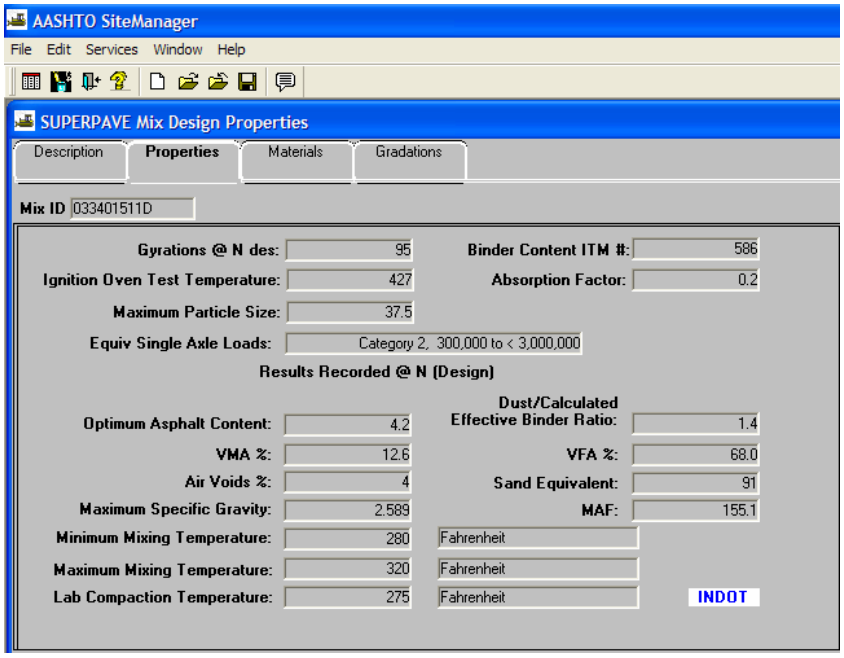
Additional information about the mix design can be viewed when the **Remarks** balloon contains lines.
"Click" on the **Remarks** button located on the toolbar.



After viewing the information, "click" on the **Remarks** button located on the toolbar to close the **Remarks (General Remarks)** panel.

Properties tab

The **Properties** tab includes the material properties of the mix design.



"Click" on the **Properties** tab.

Gyrations @ N des: **Gyrations @ N des** is the number of gyrations at N design.

Binder Content ITM#: Binder Content ITM # identifies the ITM test method utilized when the binder content for the mix design is determined.

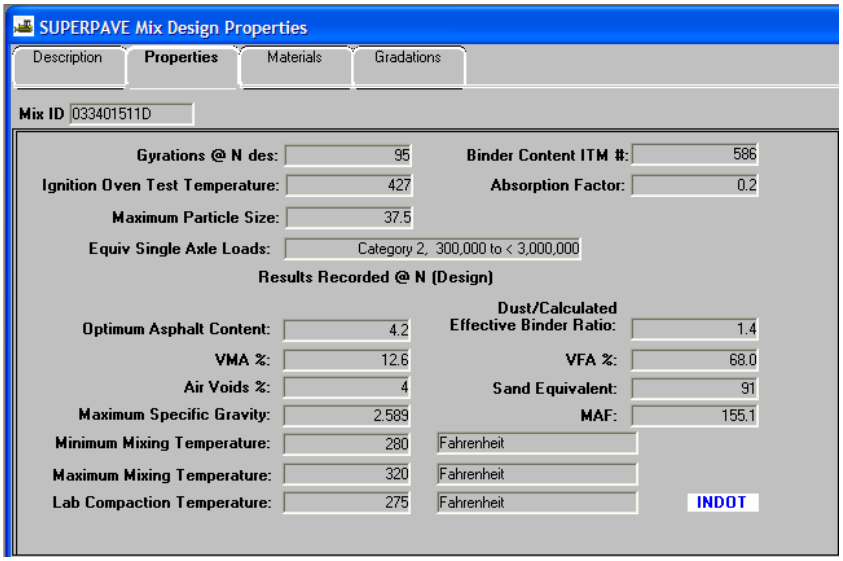
Ignition Oven Test Temperature: The **Ignition Oven Test Temperature** is the temperature at which the ignition oven shall be set to perform ITM586.

Absorption Factor: The **Absorption Factor** is the absorption value of the aggregate in the mixture.

Maximum Particle Size: The **Maximum Particle Size** represents the maximum particle size for the total blended aggregate in the mixture.

Equiv Single Axle Loads: **Equiv Single Axle Loads** is the ESAL value for the mix design.

Optimum Asphalt Content: **Optimum Asphalt Content** is the asphalt content determined in accordance with the identified test method for the mix design.



Dust/Calculated Effective Binder Ratio: **Dust/Calculated Effective Binder Ratio** is the ratio of dust to the calculated effective binder content for the mixture.

VMA %: **VMA %** is the percent of voids in the mineral aggregate.

VFA %: **VFA %** is the percent of voids filled with asphalt.

Air Voids %: Air Voids % is the percent of target air voids established by the mix design.

Sand Equivalent: **Sand Equivalent** is the value that represents the fine material that acts like a liquid.

Maximum Specific Gravity: **Maximum Specific Gravity** is the specific gravity of the loose mixture of the mix design.

MAF: **MAF** is the mix adjustment factor as applied to the pay quantities and material yield rate.

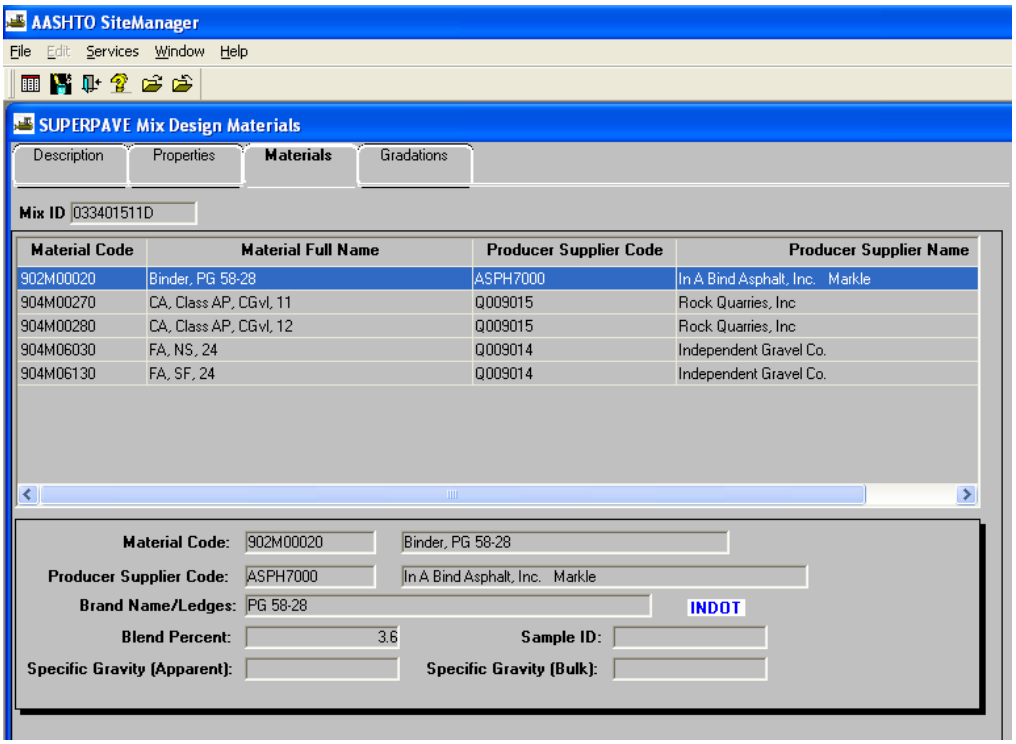
Minimum Mixing Temperature: **Minimum Mixing Temperature** is the minimum temperature at which the mixture shall be produced.

Maximum Mixing Temperature: **Maximum Mixing Temperature** is the maximum temperature at which the mixture is to be produced.

Lab Compaction Temperature: **Lab Compaction Temperature** is the required temperature of the mixture when the gyratory specimen is being prepared.

Materials tab

The **Materials** tab is where individual materials and their properties that are associated to the mix design can be viewed.



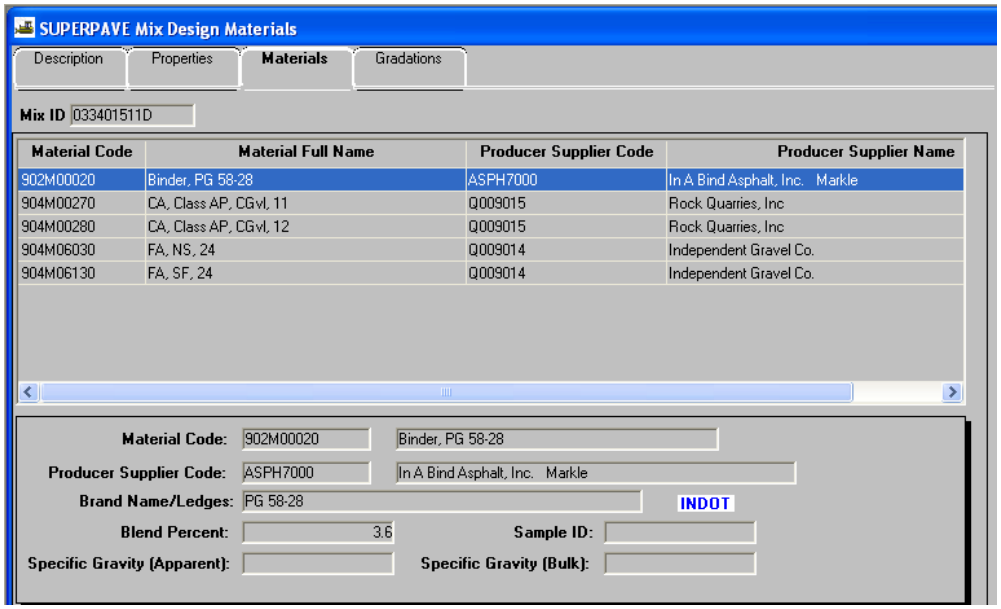
"Click" on the **Materials** tab.

"Click" on the material to be viewed located in the **Material Full Name** column of the top panel.

The information in the bottom panel reflects information for the highlighted material located in the top panel.

Material Code: Material Code is the code that identifies the individual materials that make up the SUPERPAVE mix design. The material name is displayed in the field located to the right of the **Material Code** field.

Producers Supplier Code: Producers Supplier Code is the facility where the mix design material originates. The Producer/Supplier's name is displayed in the field located to the right of the **Producer Supplier Code** field.



Brand Name/Ledges:

- **Brand Name: Brand Name** is the individual material's name from the approved material list and is used for anti strip agent, fibers or any other special materials.

- **Ledges: Ledges** are the ledges from the aggregate source.

Blend Percent: Blend Percent is the individual material's percentage of the total SUPERPAVE mixture.

Sample ID: Sample ID is the ID of the Point of Use or Verification Testing test results.

Specific Gravity (Apparent): Specific Gravity (Apparent) is the Apparent Specific Gravity of the individual material.

Specific Gravity (Bulk): Specific Gravity (Bulk) is the bulk specific gravity of the individual material.

"Click" on the next material to be viewed located in the **Material Full Name** column of the top panel.

The **Gradations** tab will not be utilized by INDOT.

Viewing a SUPERPAVE Mix Design

F-4-2-3 Group Exercise
In the following exercise, you will view information for a SUPERPAVE Mix Design.

Log into SiteManager as inquire
Password pass

Navigation from **Main Panel:**

Double-click: **Materials Management (+)** icon
Double-click: **Mix Design (+)** icon
Double-click: **SUPERPAVE Mix Design** icon
Click the **Open** button
Mix ID: Select 056401501J

Properties tab: What is the optimum asphalt Content?

Answer: 5.9

Materials tab: What is the blend Percent of CA, Class AP, CGvl, 12?

Answer: 16